

# Home Computing WEEKLY

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FREE First Issue of: 2X User, a 16-page magazine for Spectrum and ZX81 owners

No. 65 June 5-11, 1984 43p

An Argus Associated Publication

## NEW

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## PLUS

U.S. Scene, news,  
One Man's View,  
software charts,  
your letters...



## MSX Dragon on the way

Dragon is set to be the first UK computer maker with an MSX-compatible range.

Although initial staff will not comment officially, it is known that a sample has been shown to retail chains.

Samson's boss, Patrick Lallier, is also planning an MSX computer — but not until he can offer 44K for about £199.

And Korean giant Samsung is in the midst with its own MSX-based range, the 44K SPC 1000 which has a built-in cassette player.

MSX, developed by Microsoft, is a standard agreed by 28 Japanese computer makers for their 'plug-in' drive systems. JVC, Toshiba and Mitsubishi showed their machines for the first time here at the Computer Electronics Exhibition.

Full story report — page 5

## Beware the undead...

Leave the Evil Dead when you leave home when you play the game by Palace Software. But the score is burning down the lights — and don't look over your shoulder in your fantasy bar bogymen reality?

The Evil Dead is a horror game which has acquired a cult following and was the best. Continued on page 6





# TALES OF THE ARABIAN NIGHTS

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EDITED BY

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## Undead

*From from past*

rotting video of last year.

The plot: a group of intruders are trapped in an isolated cabin by spirits of the undead. One by one they become possessed and turn into demonic monsters.

"Search programs, don't it?" And the game is based on the film. You have to light off the evil spirit, and avoid the other intruders of your cabin in a game of increasing speed. The ghosts follow you as you move, so you must be quick and accurate. The music, has been written specially for the game.

The Evil Dead is due for release in 30 days for the Commodore 64 and will cost £6.99. Spectrum and BBC version will follow. It is the first of Palace Software's range of games and other film screen titles for the popular.

Managing director Paul Stone said: "We have a lot of projects on the go at the moment, some of which are nearly finished. We haven't decided which game to launch first, and we plan to have at least two-month gap between them."

"We're not like *Vegas* or *Mega*, who bang on five games in a row, we don't want to flood the market. Each game we bring out will be different, for different machines and in different genres."

"We are working on a few film titles but we're not going to release a game for every film title we hold the rights to," he said. "The software market is a new area of growth for us. We have a lot planned and the potential is very exciting."

Palace Software was formed about 18 years ago by Bill Powell, then the joint owner of Vegas, for whom it was marketing *Demons*. He commented: "It is great to see the Palace group and Virgin Palace as two major distributors. It is the largest independent video company in the country, and as a bigger hit we Michael Jackson's *Thriller*, the all-time bestselling video and the new *Catman* Club video."

"We are hoping to distribute The Evil Dead through video outlets which don't yet stock software. We think they will be attracted because of the film. The game will also be available through computer specialist shops."

Here at Palace Software we have an in-house programmer and video department. Some are specialists, one works on sound. He is a very good musician and

makes TV commercials. Another specialist is program."

Have you now made a video, you think as a team while you could be playing the game of the film?

*Palace Software, 273 Pentonville Rd, London N1*

## CBM 64 update

Melbourne House has released ACOS+ (Advanced) Command Operating System) with the aim of making the Commodore 64 attractive to consumers as a disc drive. ACOS+ will make available features of the CBM which were previously only available through magazine code or FEEBIE or POKBIE.

The program has 35 BASIC commands. It also accepts no database operations, by writing up a directory on each tape, allowing a fast forward search and taking control of the cassette motor.

Other features are simplified sports management, sports collision database, graphics commands, mortgage direct realtors, commands to set master passwords and a full range of sound and utility commands. You can also add further BASIC commands.

Thrown in as a bonus is a game called Zax, which demonstrates the power and speed which the ACOS+ commands afford. The price of the package is £5.95.

*Melbourne House, Castle Road House, Castle Road, Richmond, Surrey TW9 0EX*

## New software house

A new software house, Kortex, has been formed to produce games and educational software, particularly for the Spectrum.

Currently it has two scheduled titles in release - *Spidee Coopee* and *Redi-Maths* - and two more games - *Buruburu* and *Cricket*. Three more titles are scheduled for release in the next few weeks - *Turbo Chess*, *St. Andrew* and *Turbo Workings*. The company plans to expand into supporting new machines when they become available.

Two members of the company personnel are known to you. Christopher Thomson, who was a founding director of Arise and was responsible for *Redneck* Island and *Ship of Doom*, and Derek Wilson, who comes from

Arnold-Whiston, and was involved with *Ben the Clock* and *Weather Station*. *Kortex, PO Godlove Rd, Hensley, North Hantsdale, HLU1 9WE*

## Briefly

Sunday June 10 is a date for your diary if you live in Oxfordshire. That's when the Second South of England Personal Computer Fair will be staged, at Witney, Oxon. 30 exhibitors have stands, including Hamam, British Micro, Research Machines and Longman Software. The organisers claim there will be a large range of systems and games on display. Admission charge will be £1 and the fair will run from 11 a.m. to 7 p.m. *Wood Green School, Witney, Oxfordshire*

Amatech has converted some of its classic games for use on Spectrum. CBM 64, VIC II and Osborne. *Pete Preston, 101 Piccadilly, London W1*. *John J. Robinson, 284 and Dag Dag are the games - you can call the Amatech (0753 14846) to find out if they're available for your particular machine.* *Amatech, 41st Flr, Railway Tower, Slough, Berks SL3 3RT*

Soft Software and Books are running a joint promotion in May and June. Buy a spot the difference computer and you could win the complete full range of educational games and a Spectrum computer. Collect your entry from larger branches of Books. *Soft, 36 Langford Ave, Whiteley, Leno B20 8LJ*

Virgin has taken over the Game Centre in Oxford St, now renamed the Virgin Game Centre. Of special interest to HCW readers will be the range of software for more major interest on the first floor. Virgin states that the Game Centre is only the beginning of an expensive programme for 1984. *Virgin Games Centre, 22 Oxford St, London W1*

Perhaps is a new adventure game released by Bontems for the BBC Spectrum. To begin this main game you must first collect the street. *Wings of Power* is an arcade adventure. Characters and instructions, with English menu speech, cost £1.95.

*Peatree, PO Box 2, Ashbury, Ford, Cheshire, Chas G15A 5BH*

Due for release on May 21, Amiga, from Mag-Apps. This is the follow-up to *The Bard* and *The Sea*. It's a cartoon-style maze game for the 48K Spectrum. Price £6.95.

*Mag-Apps, Mulberry Rd, Canmore Place, Liverpool L1 6AB*

## Quicksilver sold in big deal

After months of secret talks, Quicksilver's owners have sold their company in a seven-figure deal.

Both Quicksilver and new owner Argus Press Group say that the software company will continue to act independently.

The Argus Press Group is the publishing and communications arm of British Electric Traction (BET), one of Britain's biggest corporations.

And Cosworth, who steps in to QS managing director, say it is the strength of the new venture will ensure the future growth of QS.

With 18 titles, QS is one of Britain's most successful software houses. It began 14 years ago with a few 2,000 games.

Founder Nick Lambert now has homes in Berkshire and Cheshire and John Collins, who joined his own software, lives in Cheshire. Between them they owned 90 per cent of the shares, with the rest held by staff.

Mr Cosworth said: "It means they can now enjoy millionaire status."

Talks with Quicksilver began eight months ago. Since then there have been many more meetings, some lasting well into the night.

Just a handful of people were in on the secret negotiations, but recently rumours have been spreading around the industry.

The Argus Press Group already had a New Technology Division and the QS purchase was a further development.

And Mr Cosworth, who has 14 staff, said: "We believe that resources, industry and growth it was a logical move in what is a volatile market."

"I'm looking forward to the continued challenge of maintaining Quicksilver's place at the front of the market."

He says many exciting releases in the pipeline - they will be 10 launched on June 14.

■ The sale includes Quicksilver Inc, which markets QS and other British software in the USA. This week it was running a London double-decker but at the Chicago Computer Electronics Show and upcoming games in Vegas, New Orleans and Sacramento, as well as its own products.

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## Farewell to ZX Printer

Stratton's ZX Printer has ceased production after three years as the most popular and cheapest model.

A spokesman explained: "Demand recently has been low. I think it may be in part due to the availability of alternatives for many conventional printers which people can now afford."

"We are not in the business of marketing products in low volume."

He expected the printer to remain available for several weeks, until stocks were exhausted, and the special paper would be on sale for the foreseeable future.

He said Stratton Research had no immediate plans to replace a new printer. It is likely, however, that a printer or printers are part of the company's longer-term plans.

The ZX Printer, specially designed for the ZX81 and Spectrum, first went on sale in mid 1981 at £29.95. The price went up by £10 and can now be bought for £39.95.

■ The first shipments of Stratton's £99 QL computer were due to leave last week. Due to problems in putting all the advertised features on the QL4, each will have a cartridge plugged into the back. This will later be replaced. And those who have waited for their QLs are to receive a free ribbon outfit.

## BBC disc drives

Open flame is now Super 1. Mediavision is the UK's first truly double-sided disc drive using prewriting access to both sides of a disc without the need to flip it over.

Single and dual drives are complete with their loading mechanism. The single disc 200K drive costs £229.95 and the price includes all leads, comprehensive user's manual, on-screen assistance and a disc cartridge. The 400K dual drive costs £299.

Also from Open is double density controls to monitor the correct operation of your disc drive to 95 per cent.

Open claims that cassette operates 40 per cent faster than single density systems, accommodates up to 340 files per side and is Advanced Transfer Single or Double Density format selection is automatic, and there is a choice

of 30 or 40 track. Price £129, including connectors and a comprehensive user's manual. Open, 158 Clarendon Rd, London SE1.

## New Bucks house

Unigex is a new software house based in Buckinghamshire. John Wilson, the proprietor, was formerly with the Rabbit sales team.

Unigex plans to release a range of four Spectrum arcade games, costing £9.95 each, on 21 May.

The segment claim from Unigex is that they try to incorporate everyday items into their programs to make them more interesting and enjoyable to play.

Unigex, 16 Tennyson Lane South, Juv, Bucks.

## New High St micro shops

W H Smith plans to expand its computer shops by opening at least 11 more and extending at least 26 Computer Know-How departments by September 1984. W H Smith has 115 retail shops, three are already 31 computer shops, as well as two computer shops in Hardware stores and more than 230 Computer Know-How departments in W H Smith stores.

Complete systems, software, printers and other peripherals are available from W H Smith's computer departments, in the computer shops customers can sit at console units and use complete systems.

## The gates of hell

Go with horror to the adventures of Hellfire in Richard Shepherd's new game of that name for the ZX Spectrum. Due for release on June 1, the game is loosely based around the apocryphal concept of Hell, according to Dante.

Make your way from the Portal of the Underworld through the nine circles of Hell to the center and escape. You will meet numerous characters who can help or hinder you. You are warned not to be too violent as your character will stronger than you.

The Inferno will cost £5.50 and is available by mail order.

Richard Shepherd Software, 21-23 Elmwood Lane, Croydon, Surrey, Surrey.

## Farm shop branches out

Sunday May 26 is the opening day for the dig software store in Ashford, Kent. Dennis, a well-established agricultural business in the East Kent area, is now branching out into computer collecting.

Electronics and games software will be stocked. Dig is incorporated in four Suptech, an additional new order software company being over £600 units for the C64. Suptech, £2000 worth to extend the range and have under £100 for other markets, while containing the mail order service.

The centre will also run educational projects for students to have various kinds of programs on specific areas of computing, including advanced BASIC and machine code for the C64 64 and Spectrum.

dig software store, 10 North St, Ashford, Kent.

## New Fun games

New releases from Terminal Carpet Capers, for the ZX Spectrum, and Triple Tournaement for the C64 64.

Carpet Capers is a tactical game about damaged carpet fitters, with some different screens. Novel stage lines make play the difficult and your stage appearance doesn't help — the drinky poor lot probably a cheap! Cost £3.95.

Triple Tournaement is a cabinet with three games. War World, a action shoot out, Space Race, a action chess and Karaoke, a shooting game. Price £7.95.

Terminal, Derby Hse, Derby St, Derby S1 1 1 1 1.

## Hulk is here!

The Incredible Hulk is coming! Giant, for most major computers will be on sale from June 6, costing from £7.95. In comparison with the release of the game, Marvel Comics is publishing the comic Super-Heroes, page 100, featuring the Hulk.

The Hulk is the first of a series of games from Adventure International, which will feature other Marvel characters, including Spiderman, Adventure International, 159 John Bright St, Birmingham.

## HURC winner

Medbourne House has extended the closing date for its HURC competition to June 30, 1984. The last game designed using HURC (High Level, User Friendly, Real-Time Games Designer) will cost £2,800.

Each month until the closing date Medbourne House will be awarding a £250 prize to a designer who will be judged to be the grand prize. The last finalist is Edward Combe of Cheshire, with his game Arsenal. Mr Combe is apparently a computer novice, only becoming involved in September 1983.

Details of entry are supplied with every HURC package, which costs £14.95 and runs on the ZX Spectrum. Medbourne House, Castle Road, Mrs. Castle Road, Richmond, Surrey TW9 1 1 1 1.

## King Kong helps you read

Super Blot is more than a game — it is helping dyslexic children overcome their disability. Commodore's program for both the VIC-20 and 64 controls around an on-screen keyboard, means an dyslexic in which King Kong is hiding.

The program's reading value is in the movement of the plus across the screen. The child concentrates on following the movement of the screen from left to right, moving down a space with each step. This is the correct tracking for reading and dyslexics create eye stress to the left. Price £4.95.

Commodore, 675 Apt Ave, Bough, Bucks SL7 4BG.



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# Now Europe gets games by cable

**James Heller strikes back.** If you have been reading this column for a while, you probably remember me talking about *Romex*. This software house, based in Campbell, California, was the first to make a serious effort to distribute its (predominantly entertainment) software to its dealers via electronic means. The idea started out simply with the dealers needing only a specially designed terminal. The user would enter the game he or she wanted, and the dealer would then call up the communications program which would download the game from *Romex's* mainframe and transfer it to a programmable cartridge. If the user got tired of the game, the cartridge could be reprogrammed and re-used. The advantage to the dealer was twofold—fewer sort of stock, no large inventories, never getting stuck with games that didn't move, and so forth.

Well, the idea is apparently catching on so well that *Romex* is going international. At the moment, the firm is making commitments with dealers in Canada, Germany, The Netherlands, Belgium, Luxembourg, Austria, Switzerland, and of course Great Britain! Obviously some Europeans like the idea, as one French firm has lined up FPG TV and the Games Network to work with major West German cable TV systems to stream video games and educational computer software.

- *Commodore 64 Fun and Games* by McGraw-Hill  
 ■ *Commodore 64 Favorite Programs Explained* by Que  
 ■ *The Book of Apple Software* by The Book Co.



In case you are interested in joining, the United States Commodore Users' Group just celebrated its first birthday. Its goal is to be the largest Commodore 64 and VIC-20 group in the world by its next anniversary. At present, it has roughly 2000 members. Membership costs \$20 per family annually. Members receive 10 issues of the club magazine *Commodore Performance*, a technical and programming assistance service and promotional discounts offered by manufacturers and publishers. Additionally, club members have access to over 1000 public domain programs on tape and disc. Sample issues of the magazine are available for \$1. For more information, contact USUCG at P.O. Box 33176, Beaverton, Oregon 97009.



If you are wondering how much software is available for which machines, you might be interested in the results of a recent survey which revealed that Apple is still the leader with approximately 6,400 commercial packages available. Tandy is next, with about 3,000 packages and IBM is supported by about 1,800 packages.

This study was conducted by Software of San Antonio, Texas, which feels that the advantage that Apple and CP/M programs have in the retail world will not last much longer since the retail market is coming off rapidly. As an example, they note the fact that software available for the IBM has doubled in the past six months.

My guess, I've heard all this before. How many people do they really think are going to throw away their city expensive 5 1/4 systems (which are doing the job quite adequately), after all and buy a 16-bit system that is not necessarily faster (WordStar on my 6844C CP/M Apple runs faster than the version for my 586C). Scratch that. Systems 16-bit machines, for instance, is it certainly more costly?

Not really, in my guess.



Brief from the reasons cited by this entry into financial spreadsheet programs is a new book offered by a company called ComputerQuest. The firm offers a 20-page 1/2 volume, blank spreadsheet printed on available paper (reads top quality, and truly soft software, alas). The paper is given, preferred by most accountants. You are therefore free to enter data in any format you like, and can create your own labels in any language that you know. Data definitions are made simple with one stroke of the eraser. The pad is a low profile one, with an 11 x 15 face print. It can easily fit into any briefcase or bagpack compartment, and is soft for use on surfaces. Being lightweight, it is completely portable and requires no attached power source. *CitePad* comes pre-punched to fit into three ring binders which will protect it from inadvertent data loss (frustrated, anyone who has had a wish spreadsheet run take a couple of copies, or, well in a shape could lose easier and go to it. Write or call ComputerQuest for more details at 6814 Saratoga Ave., Cupertino, Calif. 95035, (415) 344-3882.

That's it for this week. See you next time.

Bill Ives  
 Fairfield, California



In case you might be wondering what the hottest selling home computing software is these days, here's a list of the top 10 in three categories:

## Home Management/Productivity

- 1 *Home Accounting*, by Comshare (runs on everything)
- 2 *PFS:File*, by Software Publishing (everything that Allen and Comshare)
- 3 *Bank Street Writer*, by Broderbund (Apple, Atari, Commodore, PC's)
- 4 *PFS:Report* (same as 2)
- 5 *PFS:Writer* (same)
- 6 *Measurement*, by Sierra On-Line (Apple and Commodore)
- 7 *Calendar and Notes*, by Management (Apple, PC's, and others)
- 8 *PFS:Graph* (same as 2)
- 9 *Multiplan*, by MES (Commodore version of Microsoft's version)
- 10 *Brancher Speller*, by Braille (Apple)

## Home Education

- 1 *MasterType* by Scarborough (Apple, Atari, Commodore, PC's)
- 2 *Math Computation Set* by Electronic Arts (Apple and Commodore)
- 3 *Type Master* by Sierra (same as 1)
- 4 *Math Blaster* by Davidson (Apple, Commodore, PC's)
- 5 *Word Attack* (same as 4)
- 6 *Story Interview* by Spinnaker (same as 1)
- 7 *Computer SAT* by Harcourt, Brace, and Jovanovich (same as 1)
- 8 *Endurance* by Spinnaker (same as 1)
- 9 *Factorial* (same as 8)
- 10 *Boomer Tramps* (same as 8)

## Books

- 1 *Computer's First Book of Commodore 64* by Computer
- 2 *Commodore 64 Programmer's Reference Guide* by Howard F. Bero
- 3 *Computer's First Book of Games for Computer*
- 4 *Introduction IBM PC's* by Que
- 5 *Apple II/IIe User's Guide* by McGraw-Hill
- 6 *The Book of Apple Software* by The Book Co.
- 7 *How To Program Your Commodore 64 BASIC* by HP Books

# Introducing the Challenge Sprint



**It loads Spectrums four times faster  
than an ordinary cassette player,  
uses standard cassette software,  
and has improved loading reliability.**  
**All for just £64.95.**

The new Spectrum Challenge Sprint will load and save Spectrum programs at four times the speed of conventional cassette players. This even applies to standard program and games cassette software that has been pre-recorded at normal speed. All this plus improved loading reliability is available for just £64.95 exclusive of post, packing, VAT and a 12 month guarantee. The Sprint is designed to both the 100 and 40K Spectrums and provides an innovative but recognisable new concept in cassette tape storage.

#### Use of the Sprint is simplicity itself

- Returns the standard Spectrum commands and format
- Advanced digital circuitry and signal processing improves loading reliability and eliminates volume setting
- Simply plug in the Spectrums port — no interface or external power unit is required. It even has its own impedance control so that you can still use other peripherals at the same time
- A full 40K program will load or save in 75 seconds rather than five minutes with a conventional cassette recorder

Spend less on a Sprint.

Spend more on working your

Spectrum and befriending your friends

If you have Visa or Access cards you may phone your order to ensure faster delivery by calling Porton Box (0300) 44 661. Or join the coupon below.

Please allow 20 days for delivery. If you are not delighted with your Challenge Sprint simply return it within 7 days and we will refund your money in full.

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Get 10% off the Sprint

Call or write to: Porton Box, Herts, AL9 9JL. Tel: 0300 44 661 or 0300 44 662

Please supply 1 Challenge Sprint and 100 Spectrum software games, VAT at 12 months guarantee

Please tick the Spectrums that you require. If an additional unit is required, add £10.00

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Let's have a Sprint, please send me your money and 10% off the Sprint

Please tick the Spectrums that you require. If an additional unit is required, add £10.00



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A DIVISION OF A. L. HEARD LTD

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**Signals/  
Morse Code**  
16K 3381 EA-95

Category	Item	Value	Unit
Category 1	Item 1	10	kg
Category 2	Item 2	20	kg
Category 3	Item 3	30	kg
Category 4	Item 4	40	kg
Category 5	Item 5	50	kg
Category 6	Item 6	60	kg
Category 7	Item 7	70	kg
Category 8	Item 8	80	kg
Category 9	Item 9	90	kg
Category 10	Item 10	100	kg

**Morse code**, invented in the 1840s, consists of sending a simple sound method of conveying information as it substitutes knowledge of Morse code is compulsory for the first grade of the Radio Amateur Examination, and operators in all branches of the service use it.

It is used on the transatlantic cables usually, by way of a backup or emergency means if ordinary telegraph, telephone, or teletype communications fail. It can also be employed by someone having no name, using flag, or even a mechanical system like two wheels, called *cyclops*.

. This program covers all aspects of Motor vehicle transactions, with the second version using the TV system.

Interception is not the way this system can identify, but subsequent graphics updates. Each update occurs at the frame rate and if not placed in a buffer on the keyboard, it will be lost or visual interference of the large number of updates will be noticeable.

Altitude is rising pretty much every day. I would judge the speed of the mountains at about 12 inches per minute. They're an excellent resource.

Major components	100%
Small and large	100%
Structure	100%
Other (non-structure)	100%



**Tiny Touch 'N  
Go  
Dragon 52  
ES-95**

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Harcourt Health Sciences  
Publishers, Inc.

A, spear-rolling course, nearly presented with a head-on bow, entering circle, then about and a rather open circle to avoid yourself on completing the circle. According to the black you can achieve a speed of 40 words a minute in 34 hours, a class 1 word's able to use as I can already speak now.

There are 11 lenses, starting with smaller apertures and increasing rapidly through large apertures to maximum wide-aperture. Each lens must be

speed without any penalties — although you can be liable to make corrections — within a fairly soft time limit. After each attempt, you are informed of your speed and the number of

Numbers and symbols appear when the computer's postscript marks are not covered. The shift key is only used for question marks, all letters are typed as upper case, as it used on the *Deanna*.

The program loads three files from tape to regular memory, and I found it handy, in entering the right volume level for the. Otherwise it worked well. 34 34

**END OF THE  
LIFE!**



**Penguin Study Software:  
Shakespeare  
48K Spectrum  
£5.95 each**

Downloaded At: 11:53 11 September 2009

James Earl Ray never has appeared in film, across John's Greater Memphis, Twentieth Century Fox, Warner and John, Swerthout, of Venice and Home (W. Fox).

Each person is a complete individual, with his own ideas, feelings, and desires. Therefore, we must respect the individuality of each person and not try to impose our own ideas or desires on others. We must also respect the rights of others and not try to infringe on them. In summary, we must respect the individuality of each person and the rights of others.

to the very place that attempts to give answers can be researched without knowing the book is lost, and without having to deal with a printed rule. You can, incidentally, find the search instructions of the plug, and as a result some information makes out of Pappas's own New Program a few common words.

**H-1b** visa requirements and cap: **10,500**

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100. <b>REPRODUCTION</b>	100%



## Help with your homework

**Use your micro to help you with your studies. Learn Shakespeare, touch typing and Morse code at home**

**Maths Flash**  
**Astronaut**  
**TL-99/AA EE**

Woods Leaf, Green Mountains, VT  
Woods Hill, Sandpoint, Idaho  
1992-1993

The compact, easily maneuverable program designed for use on an 80- or 16-bit microprocessor and available on a 3.5-inch disk.

By increasing its quantum capacity, a robot is able to handle more complex tasks. The system is the most recent part of a sequencing display which is one of the world's ultimate machine aids.

map and fuel supply. The operators report in the cockpit that a timer device displays the position in improved.

A second response product is coming too, plans of that depending on the time taken. It is a time table device on a display.

plasma level. The optimal amount is  
unavailable.

These graphics are placed in the co-ordinates corresponding to the two numbers in the question. This means a supervisor who is able to recognize their own problems, although the computer does help to construct it, can work around internal problems and the overall profit of a unit.

Several difficulty levels are included, the response time allowed in each becoming less as the child's performance is satisfactory; the response will move to a higher level. These measures also apply. **J. M.**

Variable	Mean	SD	Min	Max
Age	38.5	10.5	25	55
Gender	0.5	0.5	0	1
Marital status	0.5	0.5	0	1
Education	12.5	1.5	10	15
Income	3500	1500	1000	6000
Health status	0.5	0.5	0	1
Exercise frequency	0.5	0.5	0	1
Stress level	0.5	0.5	0	1
Work hours	40	10	20	60
Family size	2.5	1.5	1	5
Home ownership	0.5	0.5	0	1
Commute time	30	15	10	60
Childcare costs	500	200	0	1000
Health insurance	0.5	0.5	0	1
Retirement savings	0.5	0.5	0	1
Debt-to-income ratio	0.3	0.1	0.1	0.5
Job satisfaction	0.5	0.5	0	1
Work-life balance	0.5	0.5	0	1
Overall well-being	0.5	0.5	0	1



**Answer Book  
Senior Quiz  
52K BDC/  
Electron  
©1995**

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www.fergusonharts.com

This spot comes in a very flexible, low-temperature polymer and web strength, and consistent and reproducible make the choice.

There is a general knowledge that there are 33 reports of abuses from including sexual, rape, maim, murder, drug use

As shown in the diagram, you can use the feature of loading a spare container on the road to the primary port if it is possible to sail past

To control the conditions surrounding the various displays, I wear headphones and a robe around the shoulders. You can choose multiple choice answers from a list, a multiple choice

is asked. Up to 40 questions are stored on each subject. You have the options of being asked nothing and a series of the severity increased questions. That is, which comes a lot

to hold the part in, applies the  
force. If you moved a piston  
centrally a small space that  
moves means the wheel has  
time to pass the speaker to  
allow it close.

This point is important, even when it is very good work and presented

management	管理
year of birth	出生年
disorder	疾病
school for children	儿童学校





# ...Beam us down to A&F Software!



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## Spectrum keyboards and games from



You could win a di'notics Spectrum keyboard, worth £45, in this week's competition!

De'Vos is offering you the chance to win one of 10 keyboards, and 40 runners-up will win two great games from De'Vos' vast range for the Spectrum, ZX8, BBC, Commodore 64 and VIC-20.

OKtronics' new Microdrive-compatible keyboard is an updated version of its successful 52-key keyboards. An improved feature is that both the interface I and computer can be fitted inside. The case is also large enough to incorporate the power supply.

Ditronon keyboard is simple to attach, as all connections are at the rear of the case. Fingers or handle — all the fixing points are moulded into the base.

As well as being functional, it also looks attractive. It's black with grey keys and a separate red numeric keypad. A single entry key serves as delete and decimal point. It's just what you need for your Spectrum!

Dikronos specializes in arcade games and has a wide selection of games for most major computers. There's something for everyone here.

All you have to do is find all the di'ronics games in the word-square. We've given you a list, so check back if you're in doubt. Hurry and complete the competition — and a di'ronics keyboard could soon be on its way to you.

## How to stay motivated

Study the word-square and mark all the distances that you find with a ball-point or semi-permanent felt tip pen. Complete the word-square fully and clearly — if you are a winner it will be used as a label. Send word-square and answers to us.

**Important:** write the number of rules you found on the back of the envelope

3D Tense  
Centrifuge  
Director  
Span of Eve  
Sound FX  
Director  
Astron  
Soundman  
James  
Diaz

**Spectrum**  
**Head Toss**  
**Fruit Machine**  
**Marbles**  
**Gold Mine**  
**Minesweeper**  
**2nd Toolkit**  
**Hard Cheese**  
**Star Trek 3000**  
**Search Grid**

March Man  
Apple Jam  
Troy  
Golf  
Personal Finance  
2001 A Space  
Cademy  
Sticker Parade  
Galaxyman  
Zia Zia

7777 8888

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Student	Major	Location
Francis	Biog	Speed East
Allen	Chemist	Wm. Brown
Marston	Phy. & Astr.	Wm.



1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Send your entry to:  
 diction Competition,  
 Home Computing  
 Weekly, No. 1 Golden  
 Square, London W1R  
 3AB. Closing date is at  
 first post on Friday June  
 23, 1984.

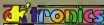
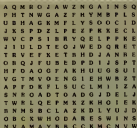
Senders of the first 30 correct entries opened at random will receive a di'brance Spectrum keyboard. Senders of the next 40 correct entries will receive two di'brance games, regardless of computer received.

The prizes will arrive from Stockholm within 20 days of the publication of the issue containing the results of the competition.

11

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The editor's decision is final and no correspondence will be entered into.



### Competition Entry - Competition

**Table 1**

**Keywords:** child sexual abuse; disclosure; self-blame

### Number of Sites Found

Computer used (Spectrum, BBC, IBM 64 or VAX-20)

Copyright clearly and fully. — If you are a publisher this will act as a hint. Any of the many Copyright Clearance Centers, the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, (978) 750-8400, Fax: (978) 750-4774, will be able to help you. The Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, (978) 750-8400, Fax: (978) 750-4774, will be able to help you. The Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, (978) 750-8400, Fax: (978) 750-4774, will be able to help you.

## COMPETITION





# MSX

## COMPUTING

### Toshiba: 'We'll be out in front'

The Japanese breakthrough has come with the MSX standard — and Toshiba claims to be a main contender in the fight to sell most computers.

Elspeth Jenner reports

In early autumn the MSX group of Japanese computer manufacturers will launch into the UK with standardised machines. Toshiba, committed to its own computer, will be a silent partner.

Toshiba's products manager Chris Grant, admits that come the autumn people will be clamouring into local retailers to get their hands on a Toshiba MS-10. Toshiba, together with five other firms, has built its own computer according to the MSX specification.

And if you didn't catch Home Computing Weekly's special report on the MSX standard (HCW MS-10 here), a quick re-cap: MSX is the brainchild of Microsoft Inc. It is a specification for home computers intended to standardise machines. This is the first time such a company has been attempted and it has now induced machines from public and private.

So for the only companies who have bought the MSX specification are Japanese. This means firms like Sony, Canon, Toshiba, Mitsubishi, Hitachi, Sharp and Telexel will make a joint bid to break into the UK and European markets. For years people have been waiting with bated breath for the Japanese to launch their own computers, and it looks as if they are now doing it in a big way.

Chris Grant explains why Toshiba has waited so long to produce a computer for the European market. 'We felt that MSX was the chance for us to get into the market. We have been looking around for a long time for a computer to launch into the UK and this could be the ideal opportunity.' He believes the advantages of MSX and the joint venture are manifold.

'The major benefit is compatibility among computers. Introducing a standard means software companies are going to have a much larger market at which to sell their software. Another advantage to software houses is that future MSX hardware will not have current software obsolete.

It all sounds fairly dandy for the



● The Toshiba MS-10

software family tree of microcomputing. It is compatible programs, but what about the customer? Obviously software bearing the MSX logo will run on any of the MSX machines — but these currently available and those yet to be developed.

And the hardware manufacturers, what do they get out of it? Hopefully, a large chunk of UK computer sales. The MSX group has so far achieved 30 joint deals with Japan, which Chris Grant feels quite substantial although he agrees that MSX machines have an advantage in their own Japanese market. It might be different here.

At the moment Chris Grant thinks Toshiba MS-10 will not be around 270,000 by the time it ships. He said: 'It's really depends on the other firms we all have different marketing plans, different ideas and different objectives.'

'But I don't think you're that important. It's not the only thing to consider and obviously I think we'll make software which will not, in any way, be the Hiroshi because of the different memory size. Toshiba will probably produce more business software as that is what the MSX (which the MS-10 has) is important. Not all MSX machines will be low standard. Some will have individual features and above the MSX specifications, which could influence the customer.'

Chris Grant says 77 firms have

signed on the MSX dotted line to produce computers according to the standard — all are companies based in the Far East. As the deal has not yet been finalised names are still secret. It is hoped some European firms will join the MSX band but Grant says the membership is far from finalised.

'The financial commitment is quite large, probably larger than most UK computer companies can afford,' he said giving some indication of the investment involved. For a start, the cost of buying a licence to produce MSX standard computers is for Grant, 'sure to be not much less than £10k.'

To make sure its investment is not wasted, the MSX group has gone to great pains to get the cooperation of almost all major British software producers. Mr Grant explained, 'The software industry in the UK is probably the most advanced in the world. We won't be using any Japanese software on the MSX machines. We are working at a group to get the software we want. Our philosophy is that we are experts in manufacturing hardware and we will be fully supporting companies who can give us the right software.'

Toshiba has not got any software ready for the September launch because the firm has only recently given computers to interested software houses to work on. But

Chris Grant says that all sorts of software needs will be provided for, including games, educational and business. There will probably be more games than anything else initially because 'there is no difficulty in obtaining good games'.

In fact, Mr Grant considers software to be of such importance to the success of the MSX 10, he states that he is now spending about 60 per cent of his time talking to software firms wanting his MSX kit. And having set up the MSX venture in the UK he is currently more involved with the software side of the plans. He thinks that although it will be easy for programmers to connect already successful products to run on the MSX standard, programme will not be content to do so merely that. 'Because good programmes are immediately doing new things we will probably see a lot of exciting new titles in the autumn.'

And if you like the look of Toshiba's MS-10 you'll be able to buy one from September. They'll be on sale in 'all the usual places', which means high street retailers. But they will also be on sale in small independent outlets. According to Mr Grant, Toshiba is a company 'very strongly committed to small independent retailers' and it is the main intention to promote such outlets to go into the computer market. 'Obviously we won't be looking at retailers that you can buy an MS-10 over the counter. We'll be looking at the far back of computers, as Chris Grant guarantees to Home Computing Weekly that Toshiba will have computers in this country by September.'

In fact, Mr Grant was laughing away with confidence at the prospect of the success of the forthcoming MS-10 and the MSX venture in the UK. 'I don't think anybody will take out from the success of the manufacturers. MSX will create most of a demand in the market place and that has to be an advantage to everyone.'

● For a full in-depth report on the Toshiba MS-10 don't miss the August issue of Personal Computing Today



Software houses are very enthusiastic about MSX. It will be a great boon to them if they can write environmental programs and share them for many different computers without any extra work. For the reason and over a standard would cut down the effort and time required to build a system.

However, for the manufacturer MSX does not seem to have any great advantages. The Japanese market places 134,000 computers 13 manufacturers and the smaller ones will no doubt have trouble surviving at home. What chance will they have in the very different English market, where Amstrad alone has a share approaching 50% and the educational market is

taken up by Atari?

MSX machines cannot be distinguished from dual MSX machines because they would disturb the standard, neither Japanese seem to have plans to sub-subsidize their competitors. This will open up a whole new market and profits who previously would never have entered into entering the world of microcomputing. There could be a second machine. There will be the need for support, maintenance, books, software and all the other ancillary services.

MSX could be a great boon to everyone. Tomorrow's!



■ Here you're viewing expansion bus, video, audio and RF output and cassette port, joystick sockets are on the side and cartridge slot is on the top.

# Toshiba HX-10: The facts and figures

In our exclusive review, Simon Rockman takes the Toshiba HX-10 apart and finds out if it lives up to its claims

It was not until I received my Commodore 64 to make maximum use of the Toshiba that I realized how attractive the new machine is. One line sticks out: you're getting a lot of stuff for your money. This is a lot of stuff for your money.

The Toshiba HX-10 is a standard Japanese standard of high-quality mass production. No frills, no frills, no frills.

Originally I was hostile to the MSX and I still don't think it's a good idea to have a single-factoring my standard. But I now think the standard (shown is good). Because, secondly, the machine I had was not quite finished, it did way well to see me over.

The Toshiba is trying to break into the personal computer market and will have to go far to make headway against the Spectrums and Commodore 64s of this world. Still, the Japanese have got a lot of money, strong marketing skills and an extensive dealer network through the large high street chains. These factors make Toshiba a force to be reckoned with, regardless of how good the computer proves to be.

## Hardware

The keyboard is very good for a low-cost home machine. It is not rated as simply as I would like, but then some of the best keyboards are really flat. There is glorified touch in the keyboard as the machine looks quite professional.

There is no numeric keypad but this is of little importance for a computer aimed at the home

market. Numeric keypads are great for data entry, but in the home they end up sitting in a pocket and there are cursor keys if you need them. A diamond-shaped cluster of cursor keys is quite right, a main feature of Commodore's design for its new machines. This is one of the few improvements which can be made in a full screen editor.

MSX specifies 19 function keys. The Toshiba's function keys are large and clearly labelled. With the screen prompts for the keys these are extremely straightforward. All keys have auto-repeat.

The board shows that this is not a first version. There are many patches on the printed circuit board which jump leads on the underside problems. Some of these are the result of modification to the British television format. A separate board exists for the PAL system. It's odd that although the case has been modified to cover this board it doesn't fit properly. The criticism is perhaps a little unfair. My machine was PAL number 4 and by the time the computers are generally available, which should be in September or October, all this should be corrected.

All the firmware is held in a 27C64 (128K EPROM), these are currently very difficult to get because of the general shortage of microelectronic components. In Japan things may be better and the computer manufacturers either make or have strong contacts with the chip manufacturers.

Moving back to the outside of the case the right-hand side houses the two joystick ports and the Amstrad parallel printer interface. I think to the joystick ports which look like the standard Amstrad ports, but I have been told that the actual wiring is different so I didn't risk any experiments. The 14-way connector is not, as far as I know, an existing standard so I was unable to test this. It should work with a Commodore printer given an appropriate cable.

Moving round some back there is the 14-way expansion bus which goes up the HX-10 to the end of the HX-10. Next to the expansion bus is a connector for a domestic television. This is used to the same frequency as the BBC, about channel 36. The domestic TV is intended as the main form of display design being a large TV and memory manipulation. Toshiba has no immediate plans to make a monitor specifically for the HX-10. The computer comes with a cable from this socket to a tele-



■ Inside the Toshiba HX-10



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Over 3000 copies have been a limited edition, at £30,000 each, you'll save £1 off the price of the first lot of them.

Home Computing Weekly has come in an exclusive arrangement for its readers, which also means you can be one of the first in the home.

The treasure is the famous Jewelled Horn of Mazarinade, made of gold and set with precious stones, which started a race back in August 1979.

Author Sir William published a book, called Mazarinade, which contained cryptic clues to its location. It was finally discovered in 1982, buried in an outbuilding, just by a man



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called Ken Thomson.

But Mr Thomson had sold it to a book company, Harraiser - and the treasure became again lost.

But this time the horn was in your hands and your grasp. The first, called Hareraiser Prelude, is launched this month. Each issue runs on the Commodore 64, Spectrum, extended VHS, 30 One/Amiga, IBM PC/XT, and Dragon, with the Advanced to follow.

The treasure will cost £8.95 each in the shops.

But to readers of Home Computing Weekly, the price of Hareraiser Prelude is just £1.95, in mail only and including postage and packing.

This special price is only available by collecting the voucher on this page, and in this week's Home Computing Weekly, and sending both to Harraiser, with the coupon on the following week's magazine.

This offer is made through the magazine by Harraiser, to whom all enquiries should be addressed. Harraiser says your tape will arrive within five days and that it guarantees replacement of any faulty tapes.

Hareraiser Prelude will not only reward the hunt, but will not alone provide the solution. You will also need Hareraiser Prelude (see part of this offer), which is due out in mid-September.

Another difference between the two and the earlier hunt is that the treasure has not been buried, to avoid damaging the countryside and to give an equal chance to young people who cannot travel freely.

Instead the winner just has to propose a solution.

Harraiser has also taken action to prevent piracy.

• Logged tapes will not contain all the clues.

• Separate numbers of the two tapes must be held by the winner.

Participants of the first tape, including HCCW readers, who register, will be offered the second by mail on the day of issue.

Harraiser says the hunt was first valued by Mr Williams at £5,000 and then valued by the press at £20,000. Now the company believes its value has risen to £30,000.

The winner may take £30,000 in cash or an interest on 10 the hunt.

• Hareraiser Prelude may also be ordered at the full price of £8.95, including postage and packing, from Harraiser, P.O. Box 382, London NW1 3JD.

## Alpha Blaster VIC-20 £7.95

Domestic Electronics Services Ltd  
Barnesgate, Manchester

What! Another "shoot up all the alien" game, what does that one give which is different and satisfying? Not a lot.

Nevertheless a game that which is good from top to left across all facets of the screen plays a pretty good you must shoot the incoming forces of blasters from a base. Each round consists of three waves, each with a different mode of attack. These all three waves and you win the game if the battle well against three laser waves. And it is not as easy as it looks.

The last one of the game is

the shooting quality, graphics and the use of a coloured screen. Well done, programmer, a few suggestions only a lot of other VIC software. The screen consists of 16 raster factory, however, due to rapid attack of the display.

I apologise for the lengthy comments, but all it means is that the VIC software available, this game is very well. I recommend the programme is about a year out of date. Computer is in America and we wish it were.

video interface	40%
playability	75%
graphics	75%
value for money	55%



## Chocobloc VIC-20 + BK £8.50

Pigeonhole, 17, Inglewood Lane  
Leighton Buzzard, Beds LU7 1PQ

Unusually, this video takes a machine which can, in such the situation of the VIC, to a somewhat extent, in a suit.

The plot is the story. You control a tank, man in a screen filled with blocks of ice. The eggs of major called Chocobloc are scattered within blocks. These blocks entering other shapes, which very, each round death in the ice blocks can be destroyed by shifting against them and on to get each one or more free take can be hit. You can kill the Chocobloc during the block of

Chocobloc (many) and can be destroyed by Chocobloc. When you Chocobloc, you can kill the Chocobloc.

The game can be played on screen by 2-4 players, which is the feature. The blocks and Chocobloc can be to play against each other. The game is very good and very good.

Overall, this is a good game. Certainly worth a look if you like a shoot a game.

video interface	80%
playability	80%
graphics	80%
value for money	80%



## Fall of Rome 48K Spectrum £6.99

Apex Front Software, No 1  
Colindale Sq, London W9 1AB

This well packaged historical wargame takes you back to 410 AD when Rome was in decline and will document Western civilisation. Carries After a massive war leading to the fall of a nation, the game is played in a realistic manner.

This most concerned Rome and its struggle against the barbarians. Rome is a massive empire, the game is played in a realistic manner. The game is played in a realistic manner.

The game is played in a realistic manner. The game is played in a realistic manner. The game is played in a realistic manner.

The game is played in a realistic manner. The game is played in a realistic manner. The game is played in a realistic manner.

The game is played in a realistic manner. The game is played in a realistic manner. The game is played in a realistic manner.

video interface	80%
playability	80%
graphics	80%
value for money	80%



# Armchair action

No need to work up a sweat — all these games require are skill and dexterity. Control legions, zap aliens and heave ice cubes from the comfort of your front room

## Box 150 48K Spectrum £2

Game Games, 107 Colindale Ct  
Colindale Rd, London NW9 1JT

Released by Game Games, this box set and more. Very cheap, it's a good programme, it's a good programme, it's a good programme.

There are three levels of difficulty, and you can play the game in a realistic manner. The game is played in a realistic manner.

It's not a difficult game, but it's a good programme, it's a good programme, it's a good programme.

The material is good, it's a good programme, it's a good programme, it's a good programme.

Available only by mail order, with 128 printed rules and more, it's a good programme, it's a good programme, it's a good programme.

video interface	80%
playability	80%
graphics	80%
value for money	80%



## Rebel Star Raiders 48K Spectrum £3.95

Box 150, 15, Mares Rd, St Albans  
Herts, London AL1 1BA

The player's control console, the Rebel Star, is a good programme, it's a good programme, it's a good programme.

The game is played in a realistic manner. The game is played in a realistic manner.

The game is played in a realistic manner. The game is played in a realistic manner.

The game is played in a realistic manner. The game is played in a realistic manner.

video interface	80%
playability	80%
graphics	80%
value for money	80%



# Ingenious...



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# CHARTBUSTERS

BRITAIN'S SOFTWARE

# CHARTS

By the C&A Market Research Group

## ARCADE

1 Jet Set Willy	Software Projects	Spectrum 11
2 Jack & the Beanstalk	Ther	Spectrum 10
3 Space Pilot	Amiboy	CMS 16 (3)
4 Bullseye	80014/Horrid	Spectrum 11
5 Finger Pilot	Digital	Spectrum 10
6 1000 Goals	Microtronic	CMS 16 (1)
7 Superkick	PSG	CMS 16 (1)
8 Pinhead	Star Generation	Spectrum 10
9 Shooter	Microtronic	Spectrum 11
10 Spectroball	Microtronic	Spectrum 11

## NON-ARCADE

1 End of Rome	APL	Spectrum 11
2 Kickoff	Master Blue	CMS 16 (1)
3 Night Fish 717	Ambros	CMS 16 (1)
4 Test Match	CL	Spectrum 10
5 Circusus Chess	CR	Spectrum 11
6 Twin Kingdom	Suplote	CMS 16 (1)
7 Golf 64	Ambros	CMS 16 (1)
8 Muggle	Microtronic	Spectrum 10
9 Breaker	Vision	CMS 16 (1)
10 The Forest	Phog	Spectrum 11

Compiled with the assistance of Britain's leading software distributors, including: Pinnacle, SDL, FGS, Websters, FGS and Software Centre.

## SPECTRUM

1 Jet Set Willy	Software Projects
2 Jack & the Beanstalk	Ther
3 Space Pilot	Amiboy
4 Bullseye	80014/Horrid
5 Finger Pilot	Digital
6 1000 Goals	Microtronic
7 Superkick	PSG
8 Pinhead	Star Generation
9 Shooter	Microtronic
10 Spectroball	Microtronic

## COMMODORE 64

1 Jack & the Beanstalk	Microtronic
2 Space Pilot	Microtronic
3 Superkick	PSG
4 Bullseye	80014/Horrid
5 Finger Pilot	Digital
6 1000 Goals	Microtronic
7 Superkick	PSG
8 Pinhead	Star Generation
9 Shooter	Microtronic
10 Spectroball	Microtronic

## DRAGON 32

1 Jack & the Beanstalk	Microtronic
2 Space Pilot	Microtronic
3 Superkick	PSG
4 Bullseye	80014/Horrid
5 Finger Pilot	Digital
6 1000 Goals	Microtronic
7 Superkick	PSG
8 Pinhead	Star Generation
9 Shooter	Microtronic
10 Spectroball	Microtronic

Compiled by M. A. Smith and Websters. Figures in brackets are last week's positions.

## VIC-20

1 Jack & the Beanstalk	Microtronic
2 Space Pilot	Microtronic
3 Superkick	PSG
4 Bullseye	80014/Horrid
5 Finger Pilot	Digital
6 1000 Goals	Microtronic
7 Superkick	PSG
8 Pinhead	Star Generation
9 Shooter	Microtronic
10 Spectroball	Microtronic

## BBC

1 Jack & the Beanstalk	Microtronic
2 Space Pilot	Microtronic
3 Superkick	PSG
4 Bullseye	80014/Horrid
5 Finger Pilot	Digital
6 1000 Goals	Microtronic
7 Superkick	PSG
8 Pinhead	Star Generation
9 Shooter	Microtronic
10 Spectroball	Microtronic

## ZX81

1 Jack & the Beanstalk	Microtronic
2 Space Pilot	Microtronic
3 Superkick	PSG
4 Bullseye	80014/Horrid
5 Finger Pilot	Digital
6 1000 Goals	Microtronic
7 Superkick	PSG
8 Pinhead	Star Generation
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COMCOM Software

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## Blackboard's Treasure TI-99/4A £7.95

Penstock, 17 Norfolk Rd,  
Brighton, East Sussex BN1 3AA  
BN1 3AA

Blackboard's Treasure is a drag on every game. You are in command of a five-man army team at a base about the screen on the sea bed. The sea around you is infested with sharks and the treasure is guarded by one giant octopus.

By using direction keys or joystick you jump from the base and swim in the sea bed, avoiding sharks and octopus. You can never go any less in the water but you swim slowly, considerably on the fast.

There's lots of treasure you'll be earning on each day and there must be enough left in the base before a second dive is made. The more treasure you return at the base, the more difficult the game becomes, both sharks are increased and there are the octopus may have to move skill is needed.

An excellent game, very well programmed and presented. Colour and graphics are brilliant. Full instructions are printed on screen before the game. Very easy to learn. (Reviewed BASC)

instructions	90%
playability	100%
graphics	100%
value for money	95%



## Red Meemies Dragon 32 £7.95

Penstock, 17 Norfolk Rd,  
Brighton, Sussex BN1 3AA

The introduction for this game included families. An introduction to Chinese and the presented in a menu, with a lot of red dragons to go and a few green ones, which disappear through the Red Meemies, which are taking you into white like a dragon. Well, the dragon is a new, but the rest?

It isn't just another Pacman thing, because this time your view of the screen is there. Dimensional. This small change completely alters the character of

the game, now a good sense of direction matters more than your speed of reaction.

I was rather surprised to find there is no joystick action. You use the 7 key to go forward, arrows to turn left and full stop to turn right. It might have been easier to be given a choice of keys. The other notable absence is difficulty levels.

The graphics and sound effects are respectable, and the introduction better in than A. good game, but not a classic.

instructions	80%
playability	90%
graphics	95%
value for money	75%



## Classic Racing Oric 1/ Atmos 48K £7.95

Penstock, 17 Norfolk Rd,  
Brighton, East Sussex BN1 3AA

This is a complete game for you to run on a screen, based on the racing. Your Oric is in charge of a children's 10 meetings throughout the season. In the run up to the final meetings, when the great classic races are held, you have to determine the strength of your racing in order to make the most advantageous selection, going to right to handicapping, race drawing and going. First money provided the top and extra winnings can be had if you race for a longer.

It would quite complicated but it really proved up, the play being controlled by various arena displays and race instructions. By the time you have completed all the preliminary it is a welcome relief to sit back and watch the race. This is a very nicely animated. It is almost a real time simulation. I don't know if the game on the market, but software would have been there made well.

Many hours of enjoyment to be seen for you handling horses.

P.B.W.

instructions	90%
playability	95%
graphics	90%
value for money	95%



# A sporting chance

Try your strength in the  
decathlon or your good timing  
in horse racing. These are all  
energetic games — can you  
stand the pace?

## Sporting Decathlon Dragon 32 £8.50

Penstock, 17 Norfolk Rd,  
Brighton BN1 3AA, Cleveland  
TE18 1PU

There is a little more than the above and below type of usually game of beginning to find and become old. If you walk like a runner under you will see the Penstock game in which you have the choice to test just a small skill game and this is a game based on the concept.

There is no race in all the sports here but they are the great old involving running and throwing events and other such.

All the games are controlled from the screen and then it's a little more. The only difficulty I had was the lack of response due to the program requiring the program address have to spend around in the running sports you have opportunity and no jump your performance from there, but it is very easy to run on or jump. The throwing events are like a little, as there is a single button down on how much strength you can get the object there.

Good graphics, sound and an excellent screen display. A must for all amateur athletes.

instructions	80%
playability	90%
graphics	90%
value for money	95%



## 3-D Battlerstar Defence Oric 1 £8.50

Penstock, 17 Norfolk Rd,  
Brighton BN1 3AA

This space game is racing most of the time, except for the time, then you are there. Under in control of our hero. You must think the strategy that your hero defines your fate. In advanced or you can approach the enemy. You can fight them to land up with the enemy who dodge and move out of the way.

The display is splendid. 3-D and reasonably effective with many levels of skill. You have control over volume, which of course can be more challenging with the Oric and that the pictures to show your position.

and the

All you program, the skill required increases but on the higher levels tend to probably most important than that more there is a little more to the game. You can fight before the enemy destroy you.

I did not experience any problems loading, but on the back up is supplied for those who have the game. The game doesn't usually work but the strategy of the game is good. Overall an impressive game but perhaps not that of a classic to be a classic.

instructions	85%
playability	90%
graphics	95%
value for money	95%



P.B.W.

instructions	85%
playability	90%
graphics	95%
value for money	95%



# ANIROG

A cartoon mouse named Bongo, grey with large ears, wearing a red cape and a red glove, is shown in a dynamic pose as if flying or jumping. The word "BONGO" is written in a stylized, outlined font next to him.

## BONGO

## Flight Path 737

A collage of images related to the Space Pilot game, including a spaceship, a satellite, and a rocket launch.

## Space Pilot

### Bongo

Enjoy the hilarious antics of the comical mouse as he collects the lost diamonds. He climbs ladders, diffuses down chutes, uses transporter and teleporter to jump across the board. Multi screen games with three levels of difficulty.  
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Screening: 100%. Ease of Use: 95%. Quality: 100%. Value for money: 95%. Price  
includes full instructions and 1 year of telephone support.

**PIKa MUSIC MAKER by David Meade** **£2 95**

**TI BASIC by Ray Matthews**  
Cheshire April 1984/85

These high-quality programs on one tape. **MUSIC MAKER** is a novel way to  
play with the sound. Notes are entered onto 2 or more staves and can then be  
played at different rates. They can be played back with 1, 2 or 3 notes on with or  
with. Many commands. Full manual on and demonstration tape included. **TI**  
**SAUND** is a clever version of the classic music game. You can play your friends  
and be the champion. 1 or 4 players on later tape. **CHASSET** **DAE** **SHOULD** be a  
complete study to our character who will enhance your other programs  
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**PIKa SPECTR by John Edwards** **£2 95**

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This has to be the most amazing music game yet for your TI 99/4A.  
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# Your chance to win ...or lose your shirt



Welcome to Action! There are six races on today's card and you have £50 stake money!

"Which owner do you fancy? Well it's be Sharpat, Corbett, Alvar Raptor?"

The odds are shown and do make some horses more likely to win, although the favourite is not always the winner!

A race will be run, showing the horses as user-defined graphics. And at the end your earnings/losses are shown.

■ As usual, we have entered ROMs in the lines above control characters as a guide. These ROMs should not be typed as they may also be used above codes for the keywords — it's faster and easier all the time will fit

## How it works

000-000 make our odds, input

for

400-000 randomly move horses

0000-00 up 1000s and horse

names

0000-0000

How much will you risk on the  
horses? Simon Lyre gives you  
and your Commodore 64 a day

# COMMODORE 64 PROGRAM

```

5 DOG=32000
6 PERICLP1
10 PRINT"CF. -POKE53289,0 POKE53281,0
20 DIMA(9,2),D(2),H(4)
30 REM (CBH*BLK)
40 PRINT"      WELCOME TO AHTREE"
45 REM(CSR DOWN) (BLU)
50 PRINT"*****HERE ARE SIX RACES ON THE CARD TODAY"
55 REM(CSR DOWN)
60 PRINT"YOU HAVE 650 TO GAMBLE ON THE SEE-BESS"
70 REM(CLR)
90 REM(COR)
100 PRINT PRINT"      PRESS C TO CONTINUE      "
110 GET#A:IF#="C"THENGO1010
115 GO1010
120 S=50 FOR#:=1TO6:PRINT"CF"
125 RESTORE FOR#:=1TO6:READ#NEXT
130 RH=INT(RND*(10#5))+5 Z0=1450
135 FOR#:=1TO#H:READ#(H) NEXT
140 PRINT"*****THERE ARE",RH," RUNNERS IN RACE NO. ",#
145 REM(CSR DOWN)
150 PRINT"*****THE ODDS ARE -"
155 REM(CSR DOWN)
160 PRINT"CF. FOR#=(1TO#H X=INT(RND*(10#19))+1
170 Y=INT(RND*(10#4))+1
180 P=X/Y:IFP=INT(P)*0THEN#:=P:Y=1:GO10200
190 P=X/2:Q=Y/2:IF(P=INT(P)*0)*Q=INT(Q)*0)THEN#:=P:Y=Q
200 ACH.1)=X:ACH.2)=Y
210 HAH(N)=S-Y/NA.2:IFHA(N)=C,2THENHA(N)=.2
220 PRINT"NO.",N,X," TO ",Y,TAB(25),HA(N)
230 NEXT
240 PRINT PRINT"YOU HAVE £",S
245 REM (CSR DOWN)
250 INPUT"WHICH HORSE DO YOU BACK ",E
260 IF(E)=1)ENDOTHERW250
270 INPUT"HOW MUCH DO YOU GAMBLE ",F
280 IF(F)=0)THEN250
290 S=S-F
300 PRINT"CF".
305 REP (BLU)10 CSR DOWN(CSR RIGHT) 30((CSR DOWN(CSR LEFT))
310 PRINT"*****
315 REM(CM)HOME)10 CSR DOWN)10 CSR RIGHT)
320 PRINT"*****
330 PRINT"*****
335 REM(CM)HOME)10 CSR DOWN)10 CSR RIGHT)
340 PRINT"*****
345 PRINT"*****
349 REM(CM)
350 PRINT"*****
355 REM(CM)HOME)10 CSR DOWN)10 CSR BLU)
360 PRINT"*****YOU HAVE £",F," ON NO. ",E," AT",A(E.1)," /",A(E.2)
365 REM(CM)HOME)10 CSR DOWN)
370 PRINT"*****THEY'RE GOING INTO THE STALLS"
380 FOR#:=1TO1000 NEXT
390 FOR#:=1TO#H
400 POKEZ(.25 POKEZ#54272.10 GCH)=Z POKEZ#1.30 POKEZ#1+54272.9
405 Z=Z#40
410 NEXT
420 V=INT(INT(RND*(10#5))+1)*1000
425 REM (HOME)10 CSR DOWN)
430 PRINT"*****THEY'RE UNDER STARTERS ORDERS      "
440 FOR#:=1TOV NEXT
445 REM (HOME)10 CSR DOWN)

```

# COMMODORE 64 PROGRAM

```

450 PRINT"*****AND THEY'RE OFF !
460 FORN=1TOFN
470 J=RND(1) IF J<RND(1) THEN490
480 GON=GON+1 T=PEEK(5100) IF T<32 THEN480
490 POKEG(0),29-POKEB(0)+2,32:POKEG(0)+54272,10 POKEG(0)+1,30
495 POKEG(0)+1+54272,3
500 NEXTN
510 GOTO460
600 POKEB(0),29-POKEB(0)+2,32:POKEB(0)+54272,6 POKEB(0)+1,30
605 REM [HOME]14 CRSR DOWN
610 PRINT"*****THE WINNER WAS NO.":N;" AT":RND(1);;" /":RND(2)
612 REM C2 CRSR DOWN
615 PRINT"*****TRAC(12):RND(0)
618 REM[HOME]128 CRSR DOWN
620 PRINT"*****
630 IF C<0 THENPRINT"YOU LOST!" GOTO670
640 M=INT(RND(1)*R/RND(2))
645 REMCYCL3
650 PRINT"YOU HAVE WON £":M;" GREAT EH?"
655 S=S+M*F
665 REMCRSR DOWN
670 PRINT"PRESS C TO CONTINUE"
675 RESTORE FORN=1TO6 READM NEXT
680 DETC=1FC="C" THEN490
685 GOTO680
690 IF S<0 THEN700
720 NEXTS
725 REMCLR(RED)
730 PRINT"UNT THE END OF A HECTIC DAYS RACING YOU HAVE £":S;" LEFT.."
735 REMCRSR DOWN(ORH)
740 PRINT"WHI WISH YOU LUCK NEXT TIME"
745 REMCRSR DOWN
750 PRINT"FI FORN=1TO2000 NEXT
751 REMC2 CRSR DOWN(18 CRSR RIGHT)
752 PRINT"*****HOTHER 00 (%/10"
755 DETR=1FR="T" THEN755
760 FR="H" THEN760
770 GOTO120
780 PRINT"7"
785 REMRED(1BLU(RED)
790 PRINT"YOU HAVE WON MONEY LEFT. TIME TO GO AND BULK."
795 REMCRSR DOWN
800 PRINT"*****BETTER LUCK NEXT TIME !"
810 GOTO750
1000 DATA32,96,240,27,15,15,24,40
1005 DATA8,2,220,240,240,40,24
1010 DATA SHEROAR,HLDSHIT,AFTR EIGHT
1020 DATA COBIEKE,OVENSEPRINT,HALLO BANDY,SWEET DREAM,WHITE WINE,CRH O BEARS
2000 PRINT"PLEASE WAIT 20 SECONDS"
2010 POKE56334,PEEK(56334)AND254 POKE1,PEEK(1)AND251
2020 FORI=8701823 TOI=12300,PEEK(I)+33340 NEXT
2030 POKE1,PEEK(1)OR4 POKE56334,PEEK(56334)OR1
2040 FORC=8701 FORB=8707 RECDH POKE12528+(BNC)+B,N NEXTB,C
2050 POKE54272,29 RETURN
3000 REM*****
3010 REMHORME GAME BY SINCH DYER
3020 REM*****
3030 REMATHANKS TO A . S HEED FOR
3040 REM*****
3050 REMA BETTING ROUTINE TAKEN *
3060 REM*****
3070 REMFROM A SHARP #2 BOK OFFER
3080 REM*****

```

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- Programs must always be sent on cassette. Listings are helpful, but not necessary. Check carefully that they are bug-free. Include details of what your program does, how it works, variations you have used and hints on conversion.

- Articles on using home computers should be no longer than 2,000 words. Don't worry about your writing ability — just try to keep to the style in PCW. Articles most likely to be published will help our readers make better use of their money by giving useful ideas, possibly with programming examples. We will convert any sketched illustrations into finished artwork.

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PCW 21

## Announcement from Ikon Computer Products

The Hobbit floppy tape system reviewed in this issue has been superseded by our new machine called the **ULTRA DRIVE**.

The **ULTRA DRIVE** is approximately twice as fast as the Hobbit and costs only £79.95 including V.A.T. and all interfaces and operating system.

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Combat evil with good in this wrestle with black forces in another galaxy. Who dares wins in two games written by Adam Lowe

### Scramble

Year	Developer	Score
1981	Atari	80
1982	Atari	75
1983	Atari	70
1984	Atari	65
1985	Atari	60
1986	Atari	55
1987	Atari	50
1988	Atari	45
1989	Atari	40
1990	Atari	35
1991	Atari	30
1992	Atari	25
1993	Atari	20
1994	Atari	15
1995	Atari	10
1996	Atari	5
1997	Atari	0

The Scramble game is a classic example of a game that was ahead of its time. It was one of the first games to feature a scrolling background, and it was also one of the first games to feature a power-up. The game was developed by Atari and was released in 1981. It was a huge success and became one of the most popular games of the era. The game was also one of the first games to be ported to the VIC-20. The VIC-20 version of the game was released in 1982 and was also a huge success. The game was one of the first games to be ported to the VIC-20 and it was also one of the first games to be ported to the VIC-20. The game was one of the first games to be ported to the VIC-20 and it was also one of the first games to be ported to the VIC-20.





# VIC-20 PROGRAMS





Now that the Oric-1 has given a respectable keyboard, improved its ROMs, and renamed itself the Atmos, it can at last be seriously considered for a real application like word processing.

But to use any device as a word processor you require the necessary software. My program will convert your 48K Oric (both old and new ROMs) to a simple word processor.

While it will not match the facilities of expensive commercial software, it will provide most basic ones of Oric computers with most of their requirements. As an example, this article was written using the program, and you won't find many mistakes with that!

Most of the program is written in BASIC, so professional typists may find the response a little slow. However, those that myself who rely on my index fingers should find that no problem. There are no machine code, so it is impossible to SAVE the program on tape before you RUN it just in case you made a slight mistake in editing the listing.

The program operates in two modes, text and control. A

# Put it in writing the easy way

Give your letters the professional touch, thanks to David Nowotnik's program for the Oric and Atmos

reminder of the mode appears at the top of the screen so that you should be safe.

When you RUN the program, you'll start TEXT mode. You'll notice that the screen is black, but the top of the screen editor has an unusual white background. The character square at the top left of the screen is the cursor, if you press a few keys then the corresponding letters will appear on the screen following the cursor.

If you make a mistake there are several ways to correct it. You can use the cursor control keys to move the cursor in the direction of the arrow. If you use the back space arrow, you can place the cursor over the rejected letter, and replace it with the right letter; then press the enter key to go previous position (with the cursor right key). If you wish, the cursor can be moved up or down the screen as well.

There may be a need to delete one or more letters, so in open up a space between letters in correcting what you have written.

To delete a letter, move the cursor to the letter you wish to remove, then press the DEL key. All the letters to the right of the cursor will be moved one space to the left. To open up a space, press DEL and SHIFT, all the letters to the right of the cursor will be moved one space to the right.

To indicate to the computer that you've come to the end of a paragraph, press RETURN.

On the screen you'll see a black vertical bar on a white background. This is the end of paragraph marker. On the screen the letters will continue on the same line, but when you come to print out your text, a new paragraph will start every time an end of paragraph marker is found.

Another thing that a word processor allows you to forget are words over-running from one line to the next. This is also corrected while text is in the printer.

This program allows you up to 400 lines of 40 characters in an text file. Using the cursor control keys you can move up or down through the text file on

the screen. Text will scroll up or down automatically when the cursor is at the bottom or the top of the screen. And there is auto repeat on all keys, including the mouse keys, so make this movement easier.

You can obtain CONTROL mode easily by pressing the ESC key at any time. This mode gives five options; you can save the text file on tape, load it back from tape, erase the text, output to printer, or return to TEXT mode.

With the save and load options you give a file name for the text file. With the load and erase options you are asked to confirm the response, as both will remove totally any text in the computer's memory.

When you select output mode, you have to respond to several questions; the page length (normally 10 or 12 inches), the line spacing (1 or 2 — single or double spacing), and the number of lines per page.

The program assumes no less per inch, so if your printer has something else, then you may require some programs like changes. The program also assumes you are using an 80 column printer, you can select the left and right margin. Once all this data is in the computer, you get a hard copy of your text.

A final tip to Oric-1 users: normally your Oric would not allow you to load a block of bytes from an extension unless a program. There are two tracks used in this program which allow you to do this.

Notice the SAVE command (line 4260) is for extension. The first byte of the block of text when you re-LOAD contains the machine code RTS instruction. This value has 40 which returns the computer automatically to BASIC, to the point from where it left in the program. Also the end of BASIC system variable is restored (line 4260). Without these steps, the Oric-1 would lose the BASIC program.



**How it works**

0000-0070 status calculations  
0000-0075 call machine code routine to transfer text to screen  
0000-0080 status routine for top of screen messages  
0000-0085 text mode messages  
0000-0090 control mode messages  
0000-0095 main top of screen message  
1000-1005 check for a keypress, and delay if repeated  
1000-1010 repeat key delay  
1000-1015 wait up when cursor down key is pressed, and cursor is in line of screen  
1000-1020 scroll down when press moved up all screen  
1000-1025 scroll up when text only turns on the screen  
1000-1030 plus repeat message for block turns on white background  
2000-2100 main text routine — checks for keypress ESC, DEL, RETURN, or delete key if a valid character, place on screen and text file and update cursor  
3000-3030 plus end of paragraph message  
4000-4005 screen/delete routine  
4000-4010 cursor stop a routine  
4000-4015 valid mode — screen message and waiting  
4000-4020 save file on tape  
4000-4025 load file from tape  
4000-4030 erase file from screen  
4000-4035 output data to printer  
4000-4040 calculate extra variables, format machine code on an empty text file  
7100-8000 DATA for machine code, constants and keypress check array

**Main variables**

PC cursor position in display file  
PT cursor position in text file  
TS top of screen position in text file  
MC last character position in text file  
CB last character ASCII value  
line  
RTS RTS instruction  
OVRN only control for repeat key  
MS top of screen message string  
PL page length  
LS line spacing  
NL number of lines per page  
LN left margin  
RM right margin  
CH character counter

## PERFORMANCE

```

10 REM Word Processor
20 REM by David Macaulick
30 REM April, 1989
40 REM
50 GOTO5000
6000 REM Screen refresh
6100 GOTO5,78:GOTO3,49:GOTO
6200 REM 4,49:GOTO,CALL,10:99
6300 RETURN
6400 REM Top of screen message
6500 X=49:GOTO
6600 POFPS=1:GOTO:GOTO
6700 POFPS=ASC(CHR(1+1))
6800 X=X+1:GOTO5:RETURN
6900 REM Text Message
7000 REM=Text Mode
7100 GOTO5:GOTO5:RETURN
7200 REM Control Message
7300 REM=Control Mode
7400 GOTO5:GOTO5:RETURN
7500 REM Clear top of screen
7600 REM
7700 GOTO5:GOTO5:RETURN
7800 REM (Esc) for a key press
7900 REM=PS=1:GOTO5:GOTO5
8000 IF PS=1:GOTO5:GOTO5:GOTO5:GOTO5
8100 GOTO5:GOTO5:GOTO5:GOTO5:GOTO5
8200 GOTO5:GOTO5:GOTO5:GOTO5
8300 REM Delay to repeat key
8400 COUNT=COUNT+1
8500 IF COUNT=1:GOTO5:GOTO5:GOTO5:GOTO5
8600 RETURN
8700 REM Scroll up 1
8800 PS=PS-40
8900 IF PS=5:GOTO5:GOTO5:RETURN
9000 TS=TS+40
9100 GOTO5:GOTO5:RETURN
9200 REM Scroll down
9300 IF TS=49:GOTO5:GOTO5:RETURN
9400 TS=TS-40:PT=PT-40
9500 GOTO5:GOTO5:RETURN
9600 REM Scroll up 3
9700 PT=PT+3:GOTO5:GOTO5:RETURN
9800 TS=TS+40:PT=PT+40
9900 GOTO5:GOTO5:RETURN
1000 REM Scroll down 3
1010 PT=PT-3:GOTO5:GOTO5:RETURN
1020 TS=TS-40:PT=PT-40
1030 GOTO5:GOTO5:RETURN
1040 REM Replace top line attribute
1050 POFPS=PS:GOTO5:GOTO5:GOTO5:GOTO5
1060 GOTO5:GOTO5:RETURN
1070 REM Control Mode
1080 REM Text Entry = Main routine
1090 GOTO5:GOTO5
1100 REM=PT
1110 GOTO5:GOTO5:GOTO5:GOTO5:GOTO5
1120 GOTO5:GOTO5:GOTO5:GOTO5:GOTO5
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[illegible]

### ORIGENIUS PROGRAM

[illegible]





**HUNGRY HORROR.** It has been said that Horror games are at a state of their own. In fact, Horror is almost a legend. Hungry Horror, the original Horror adventure, is now available for the Dragon 32.



**COSMICRAFT.** Written entirely in Machine Language, Cosmicraft is an exciting and challenging game of arcade strategy. Needs, with graphics in Mapview and features moving characters, alarm beepers, laser guns and more. A full screen game for the unexpensive VIC 20.



**THE HOBBIT.** What J.R.R. Tolkien's Middle Earth is the most amazing adventure yet devised. A game by who's future games will be sought! — Personal Computing Today. "Greatest to any other adventure game." — New Computer. The Hobbit is now available for the BBC, Onic, Commodore 64 and Spectrum.

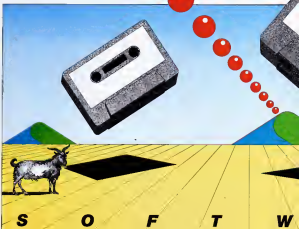


**HURR.** A revolutionary piece of software for your BBC Spectrum which allows you to develop high quality Machine Language arcade games with absolutely no programming experience. It is difficult to find fault with such a complete game, generation program. — Crash.



**COMMODORE 64 HORROR GAME'S GAME.** Is the sequel to the very successful Hungry Horror. Is this adventure more than a simple sequel? Using a complete with eleven flags, trees and maps to which not Horror!

# MELBOURN







**FORTH** Microsoft FORTH is an implementation of the Forth Language for your Spectrum 48K. FORTH is closer to Machine Code and easier than 32 lines faster than BASIC. The only Spectrum package which has been endorsed by the Forth Interest Group. — *Smoked User*



**CLASSIC ADVENTURE** This is the program that started it all! Now you can discover the excitement of Classic Adventure on your Spectrum 48K, and if you're masochist enough you can even become a Mad Max Adventure. — *Mark Andrews*

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**MASH** gives a totally new direction to third parties — comic animation in text, stunning graphics and a full-scale game. Mugsy screams and only chance is to become the political gang leader with definite of a judge.

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#### ORIC-1

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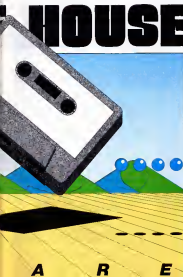
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